

=> d his

(FILE 'HOME' ENTERED AT 15:06:30 ON 25 FEB 2000)

FILE 'HCAPLUS' ENTERED AT 15:06:37 ON 25 FEB 2000  
L1 823 S COOK P?/AU  
L2 46 S L1 AND COMBINAT?  
L3 6 S L2 AND HETEROCYC?  
SELECT RN L3 1-6

FILE 'REGISTRY' ENTERED AT 15:07:03 ON 25 FEB 2000  
L4 200 S E1-200  
L5 278 S E200-477  
L6 477 S L4 OR L5  
L7 25 S L6 AND NCNC3/ES  
L8 28 S L6 AND NCNC2-NCNC3/ES  
L9 53 S L7 OR L8

FILE 'HCAPLUS' ENTERED AT 15:08:58 ON 25 FEB 2000  
L10 4 S L3 AND L9  
L11 2 S L3 NOT L10

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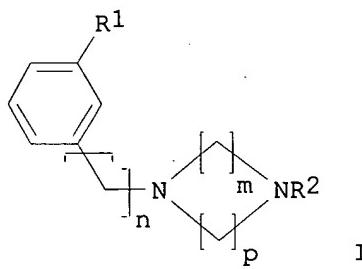
L11 ANSWER 1 OF 2 HCPLUS COPYRIGHT 2000 ACS  
AN 1999:379847 HCPLUS  
DN 131:170275  
TI A solution-phase **combinatorial** chemistry methodology for drug discovery  
AU An, Haoyun; Cook, P. Dan  
CS Isis Pharmaceuticals, Inc, Carlsbad, CA, 92008, USA  
SO Recent Res. Dev. Org. Chem. (1998), 2(Pt. 2), 473-488  
CODEN: RDOCFJ  
PB Transworld Research Network  
DT Journal; General Review  
LA English  
CC 28-0 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1  
AB In this review with 22 refs., recent work on soln.-phase simultaneous addn. of functionalities (SPSAF) done by the Isis Pharmaceutical group is discussed. The details of the SPSAF **combinatorial** synthesis of libraries from a variety of novel, unsym. linear, polyazamacrocyclic, and **heterocyclic** scaffolds is described. Diverse, complex libraries generated by the SPSAF approach, library purifn. and confirmation techniques, and the biol. evaluation of resulting libraries for antibacterial and RNA interaction assays are summarized.  
ST review soln phase **combinatorial** chem drug discovery  
IT Antibacterial agents  
**Combinatorial** chemistry  
Drug design  
(review of soln.-phase **combinatorial** chem. methodol. for drug discovery)  
IT Macrocyclic nitrogen **heterocycles**  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(review of soln.-phase **combinatorial** chem. methodol. for drug discovery)

=> d all 2

L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2000 ACS  
 AN 1998:112234 HCAPLUS  
 DN 128:167445  
 TI Preparation of dinitrogen heterocycle compounds as antibacterial agents  
 IN Cook, Phillip Dan; Kawasaki, Andrew M.; Kung, Pei Pei  
 PA Isis Pharmaceuticals, Inc., USA; Cook, Phillip Dan; Kawasaki, Andrew M.; Kung, Pei Pei  
 SO PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A61K031-495  
 ICS C07D241-04  
 CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 1, 10

FAN.CNT 1

|      | PATENT NO.  | KIND     | DATE     | APPLICATION NO. | DATE     |
|------|---|----------|----------|-----------------|----------|
| PI   | <u>WO 9805332</u>   | A1       | 19980212 | WO 1997-US13686 | 19970801 |
|      | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,<br>DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,<br>LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,<br>PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,<br>US, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,<br>GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,<br>GN, ML, MR, NE, SN, TD, TG |          |          |                 |          |
|      | US 5731438  | A        | 19980324 | US 1996-691185  | 19960801 |
|      | US 5798360  | A        | 19980825 | US 1996-688993  | 19960801 |
|      | US 5817489  | A        | 19981006 | US 1996-691149  | 19960801 |
|      | US 5922872  | A        | 19990713 | US 1996-691139  | 19960801 |
|      | AU 9739069  | A1       | 19980225 | AU 1997-39069   | 19970801 |
|      | US 5998419  | A        | 19991207 | US 1998-40787   | 19980318 |
| PRAI | US 1996-688993  | 19960801 |          |                 |          |
|      | US 1996-691139  | 19960801 |          |                 |          |
|      | US 1996-691149  | 19960801 |          |                 |          |
|      | US 1996-691185  | 19960801 |          |                 |          |
|      | WO 1997-US13686   | 19970801 |          |                 |          |
| OS   | MARPAT 128:167445   |          |          |                 |          |
| GI   |   |          |          |                 |          |



Searched by John Dantzman 308-4488

AB Dinitrogen **heterocycle** compds. I [n, m, p = 1, 2, 3; R1 = halo, cyano, alkyl, perhaloalkyl, alkoxy, NO<sub>2</sub>, NO, carboxylate; R2 = H, alkyl, aryl, alkaryl, **heterocycl1**, etc.], contg. at least one N-meta-substituted alkaryl group and/or novel meta-benzylic compds., were prep'd. E.g., a soln. of tert-Bu 1-piperazinecarboxylate was treated with a mixt. of benzyl bromide, 3-methylbenzyl bromide, 3-trifluoromethylbenzyl bromide, 3-fluorobenzyl bromide, 3-(methoxycarbonyl)benzyl bromide, 3-cyanobenzyl bromide, and 3-nitrobenzyl bromide to give a mixt. of tert-Bu 4-(substituted benzyl)-1-piperazinecarboxylates. The antibacterial activity of I toward staphylococcus aureus and E. coli imp-was detd.

ST dinitrogen **heterocycle combinatorial** library prepn; piperazine deriv **combinatorial** library prepn; antibacterial agent dinitrogen **heterocycle combinatorial** library

IT Antibacterial agents  
**Combinatorial** library  
 (prepn. of **combinatorial** libraries of dinitrogen **heterocycles** as antibacterial agents)

IT 203047-40-9P 203047-41-0P 203047-42-1P 203047-43-2P 203047-44-3P  
 203047-45-4P 203047-46-5P 203047-47-6P 203047-48-7P 203047-49-8P  
 203047-50-1P 203047-51-2P 203047-52-3P 203047-53-4P  
 RL: BAC (Biological activity or effector, except adverse); RCT  
 (Reactant);  
 SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of **combinatorial** libraries of dinitrogen **heterocycles** as antibacterial agents)

IT 203048-28-6P 203048-29-7P 203048-30-0P 203048-31-1P 203048-32-2P  
 203048-33-3P 203048-34-4P 203048-35-5P 203048-36-6P 203048-37-7P  
 203048-38-8P 203048-39-9P 203048-40-2P 203048-41-3P 203048-42-4P  
 203048-43-5P 203048-44-6P 203048-45-7P 203048-46-8P 203048-47-9P  
 203048-48-0P 203048-49-1P 203048-50-4P 203048-51-5P 203048-52-6P  
 203048-53-7P 203048-54-8P 203048-55-9P 203048-56-0P 203048-57-1P  
 203048-58-2P 203048-59-3P 203048-60-6P 203048-61-7P 203048-62-8P  
 203048-63-9P 203048-64-0P 203048-65-1P 203048-66-2P 203048-67-3P  
 203048-68-4P 203048-69-5P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of **combinatorial** libraries of dinitrogen **heterocycles** as antibacterial agents)

IT 92-54-6, N-Phenylpiperazine 100-39-0, Benzyl bromide 104-94-9,  
 4-Methoxyaniline 110-85-0, Piperazine, reactions 136-95-8,  
 2-Aminobenzothiazole 402-23-3, 3-Trifluoromethylbenzyl bromide  
 456-41-7, 3-Fluorobenzyl bromide 620-13-3, 3-Methylbenzyl bromide  
 1129-28-8 2687-43-6, O-Benzylhydroxylamine hydrochloride 3958-57-4,  
 3-Nitrobenzyl bromide 5452-35-7, Cycloheptylamine 15532-75-9  
 28188-41-2, 3-Cyanobenzyl bromide 41202-32-8 57260-71-6, tert-Butyl  
 1-piperazinecarboxylate 67442-07-3 127561-18-6 175334-69-7  
 RL: RCT (Reactant)  
 (prepn. of **combinatorial** libraries of dinitrogen **heterocycles** as antibacterial agents)

IT 2759-28-6P 5321-48-2P 29182-87-4P 55513-16-1P 55513-19-4P  
 57260-70-5P 77278-55-8P 78158-32-4P 121189-77-3P 191598-96-6P

Searched by John Dantzman 308-4488

203047-32-9P 203047-33-0P 203047-34-1P 203047-35-2P 203047-36-3P  
203047-37-4P 203047-38-5P 203047-39-6P 203047-54-5P 203047-55-6P  
203047-56-7P 203047-57-8P 203047-58-9P 203047-59-0P 203047-60-3P  
203047-88-5P 203047-89-6P 203047-90-9P 203047-91-0P 203047-92-1P  
203047-93-2P 203047-94-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of **combinatorial** libraries of dinitrogen  
**heterocycles** as antibacterial agents)

IT 3074-46-2P 36824-73-4P 94012-33-6P 203047-61-4P 203047-62-5P  
203047-63-6P 203047-64-7P 203047-65-8P 203047-66-9P 203047-67-0P  
203047-68-1P 203047-69-2P 203047-70-5P 203047-71-6P 203047-72-7P  
203047-73-8P 203047-74-9P 203047-75-0P 203047-76-1P 203047-77-2P  
203047-78-3P 203047-79-4P 203047-80-7P 203047-81-8P 203047-82-9P  
203047-83-0P 203047-84-1P 203047-85-2P 203047-86-3P 203047-87-4P  
203047-95-4P 203047-96-5P 203047-97-6P 203047-98-7P 203047-99-8P  
203048-00-4P 203048-01-5P 203048-02-6P 203048-03-7P 203048-04-8P  
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203048-25-3P 203048-26-4P 203048-27-5P 203048-70-8P 203048-71-9P  
203048-72-0P 203048-73-1P 203048-74-2P 203048-75-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of **combinatorial** libraries of dinitrogen  
**heterocycles** as antibacterial agents)

=> d bib abs hitstr 110

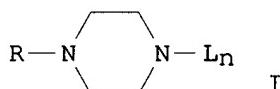
L10 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2000 ACS  
 AN 1999:42619 HCAPLUS  
 DN 130:110283  
 TI Nucleobase heterocyclic combinatorialization  
 IN Cook, Phillip Dan; An, Haoyun; Guinossos, Charles J.; Fraser,  
 Allister S.; Kawasaki, Andrew M.  
 PA Isis Pharmaceuticals, Inc., USA  
 SO PCT Int. Appl., 129 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 9900669  | A1   | 19990107 | WO 1998-US13666 | 19980630 |
|      | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,<br>DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,<br>KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,<br>NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,<br>UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,<br>FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,<br>CM, GA, GN, ML, MR, NE, SN, TD, TG |      |          |                 |          |
|      | AU 9881791  | A1   | 19990119 | AU 1998-81791   | 19980630 |
| PRAI | US 1997-884873  |      | 19970630 |                 |          |
|      | WO 1998-US13666   |      | 19980630 |                 |          |

GI



AB Mixts. of title compds. [I; Ln = alkyl, alkynyl, carbocycloalkyl, aryl, heteroaryl, etc.; R = C<sub>6</sub>H<sub>5</sub>, 2-pyrimidyl, 2-purinyl, etc.] are prep'd., preferably in soln. phase from the reaction of a purine or pyrimidine heterocyclic scaffold with a set of related chem. substituents, optionally through employment of a tether moiety, having antibacterial

and other biol. activities per se and are articles of commerce. Thus, the title compd. I (Ln = 2-(4-BOC-1-piperazinyl-6-aminopyrimidyl); R = BOC) was prep'd. from 2,4,6-trichloropyrimidine and I (R = H; Ln = BOC).

IT 219688-02-5P 219688-03-6P 219688-47-8P  
 219688-51-4P 219688-61-6P 219688-66-1P  
 219688-72-9P 219688-84-3P 219688-88-7P  
 219688-92-3P

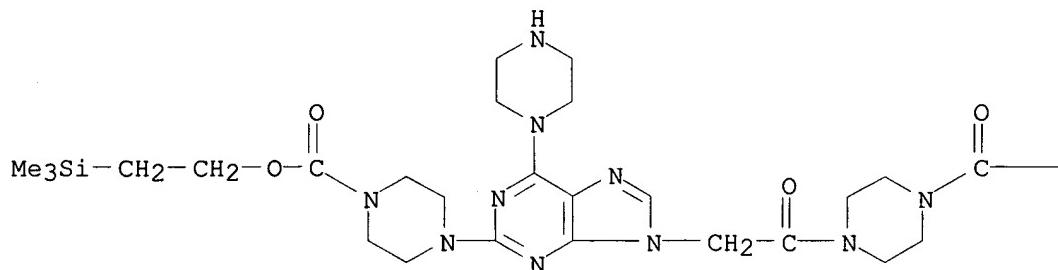
RL: BAC (Biological activity or effector, except adverse); RCT  
 (Reactant);  
 SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (combinatorialization of nucleobase heterocyclic)

RN 219688-02-5 HCAPLUS

Searched by John Dantzman 308-4488

CN 1-Piperazinecarboxylic acid, 4-[9-[2-[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]-2-oxoethyl]-6-(1-piperazinyl)-9H-purin-2-yl]-, 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



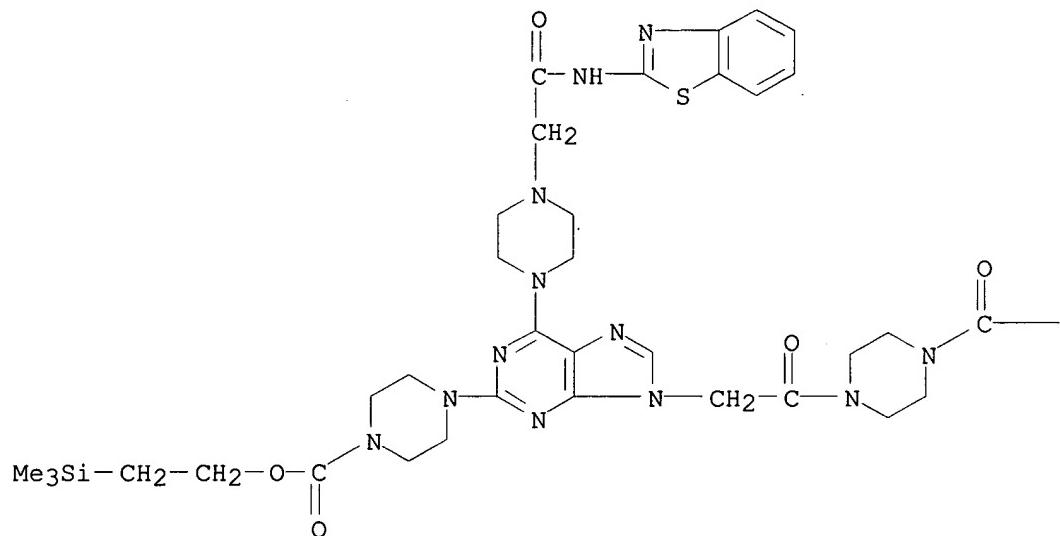
PAGE 1-B

—OBu-t

RN 219688-03-6 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-9-[2-[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]-2-oxoethyl]-9H-purin-2-yl]-, 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)

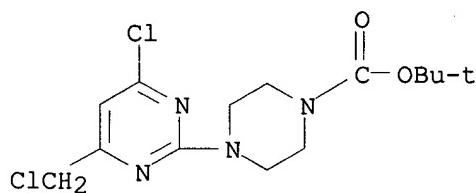
PAGE 1-A



PAGE 1-B

—OBu-t

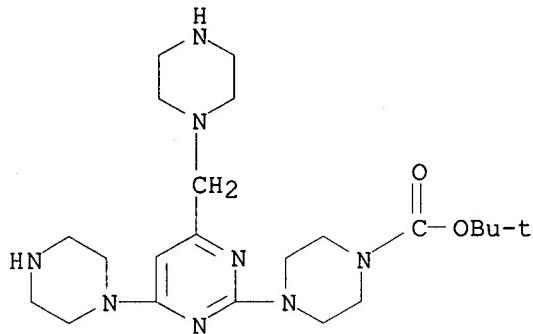
RN 219688-47-8 HCAPLUS  
 CN 1-Piperazinecarboxylic acid,  
 4-[4-chloro-6-(chloromethyl)-2-pyrimidinyl]-,  
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



Searched by John Dantzman 308-4488

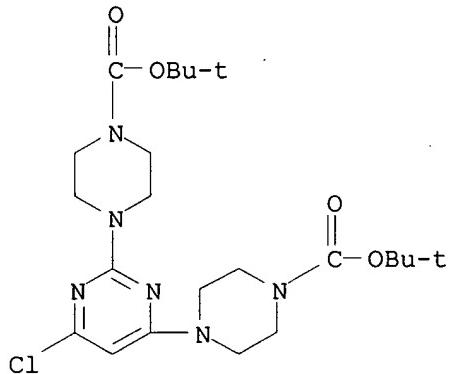
RN 219688-51-4 HCPLUS

CN 1-Piperazinecarboxylic acid,  
4-[4-(1-piperazinyl)-6-(1-piperazinylmethyl)-  
2-pyrimidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



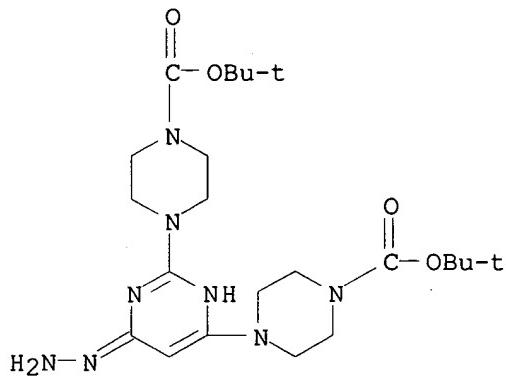
RN 219688-61-6 HCPLUS

CN 1-Piperazinecarboxylic acid, 4,4'-(6-chloro-2,4-pyrimidinediyl)bis-,  
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

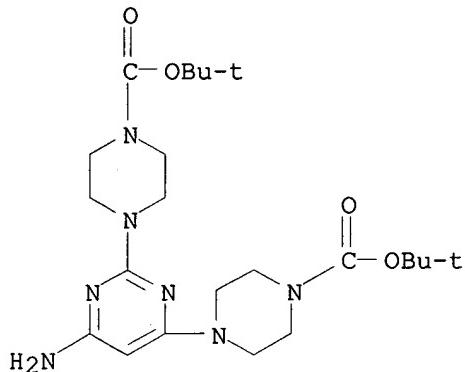


RN 219688-66-1 HCPLUS

CN 1-Piperazinecarboxylic acid, 4,4'-(6-hydrazino-2,4-pyrimidinediyl)bis-,  
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

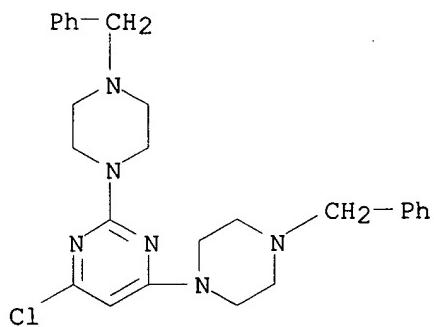


RN 219688-72-9 HCPLUS

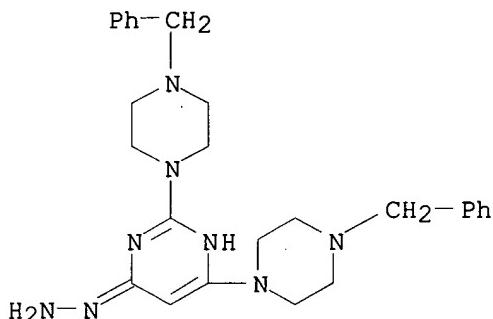
CN 1-Piperazinecarboxylic acid, 4,4'-(6-amino-2,4-pyrimidinediyl)bis-,  
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

RN 219688-84-3 HCPLUS

CN Pyrimidine, 4-chloro-2,6-bis[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

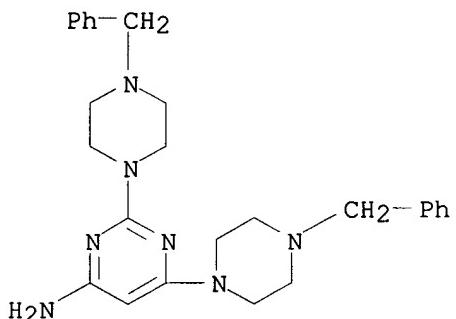


RN 219688-88-7 HCAPLUS

CN 4(1H)-Pyrimidinone, 2,6-bis[4-(phenylmethyl)-1-piperazinyl]-, hydrazone  
(9CI) (CA INDEX NAME)

RN 219688-92-3 HCAPLUS

CN 4-Pyrimidinamine, 2,6-bis[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



IT 219688-04-7P 219688-05-8P 219688-06-9P

219688-07-0P 219688-08-1P 219688-09-2P

219688-10-5P 219688-11-6P 219688-12-7P

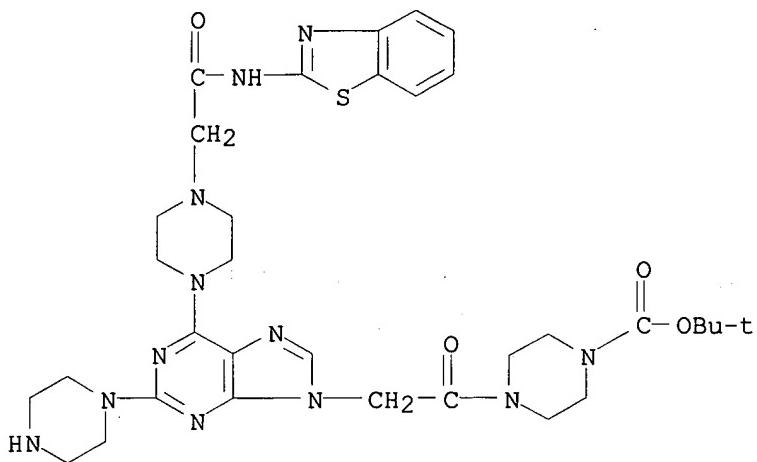
219688-13-8P 219688-14-9P 219688-56-9P

219688-78-5P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
**(combinatorialization of nucleobase heterocyclic)**

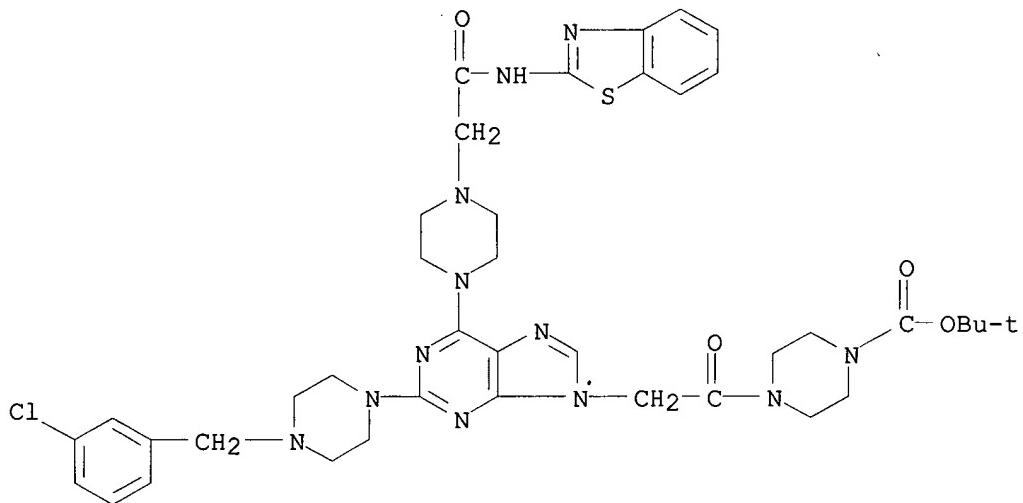
RN 219688-04-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-(1-piperazinyl)-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



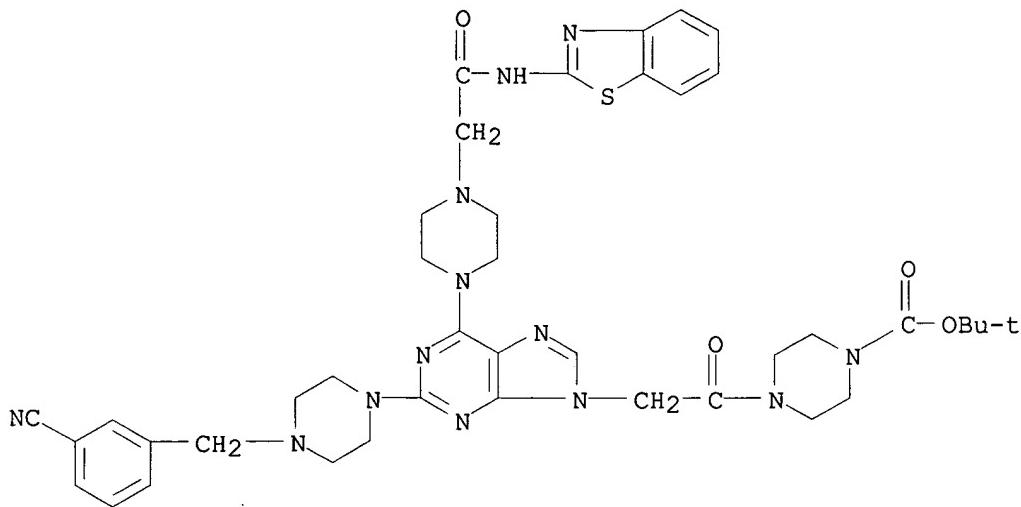
RN 219688-05-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[(3-chlorophenyl)methyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



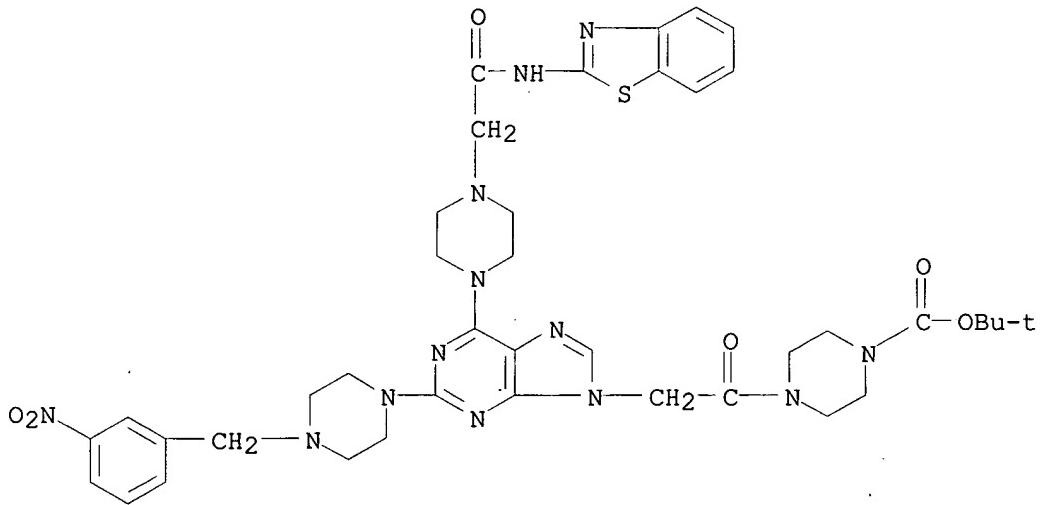
RN 219688-06-9 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[(3-cyanophenyl)methyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



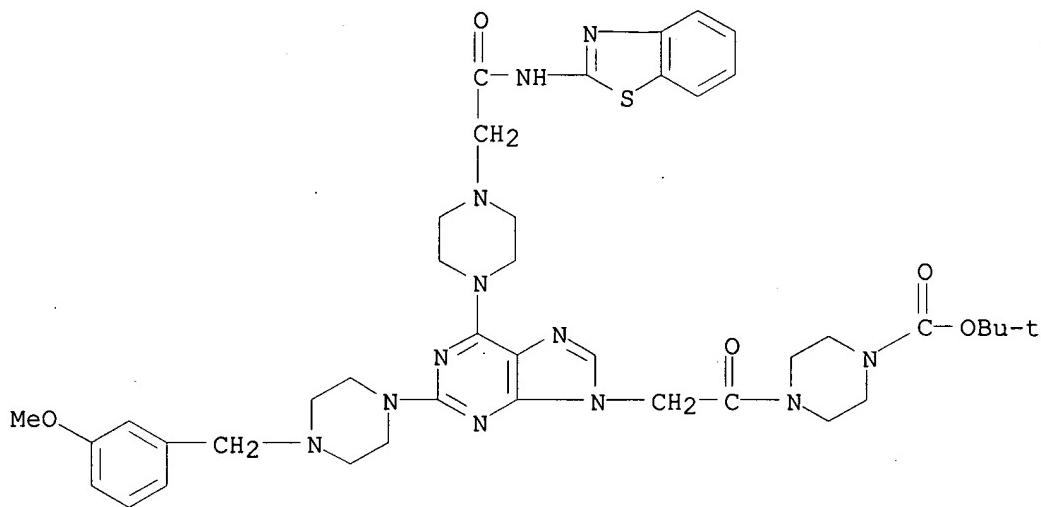
RN 219688-07-0 HCAPLUS

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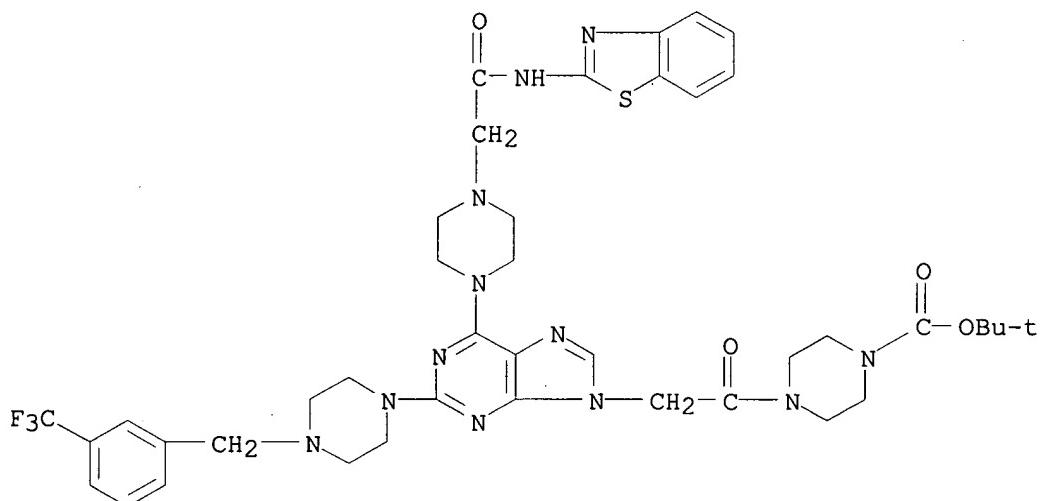
RN 219688-08-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[4-[(3-methoxyphenyl)methyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 219688-09-2 HCAPLUS

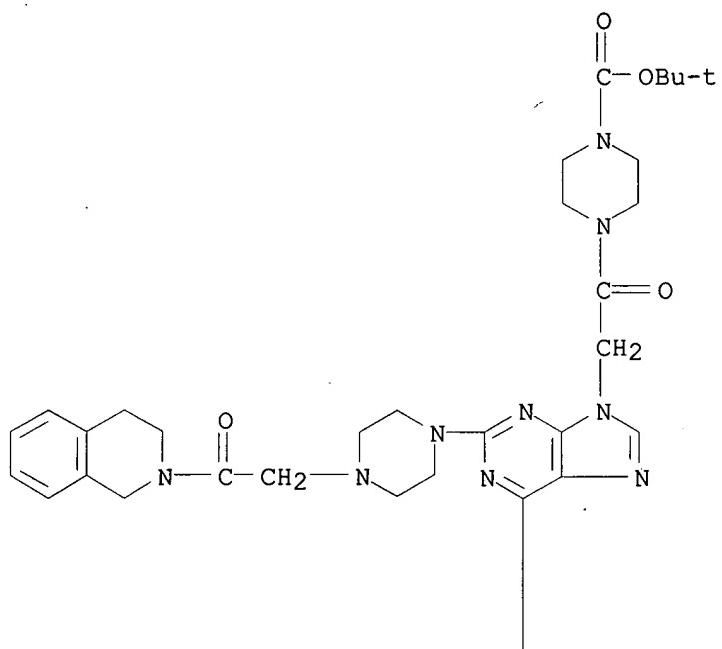
CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[4-[[3-(trifluoromethyl)phenyl]methyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



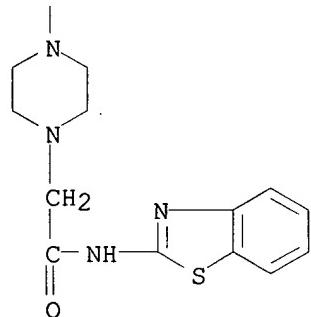
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CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[4-[2-(3,4-dihydro-2(1H)-isoquinolinyl)-2-oxoethyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



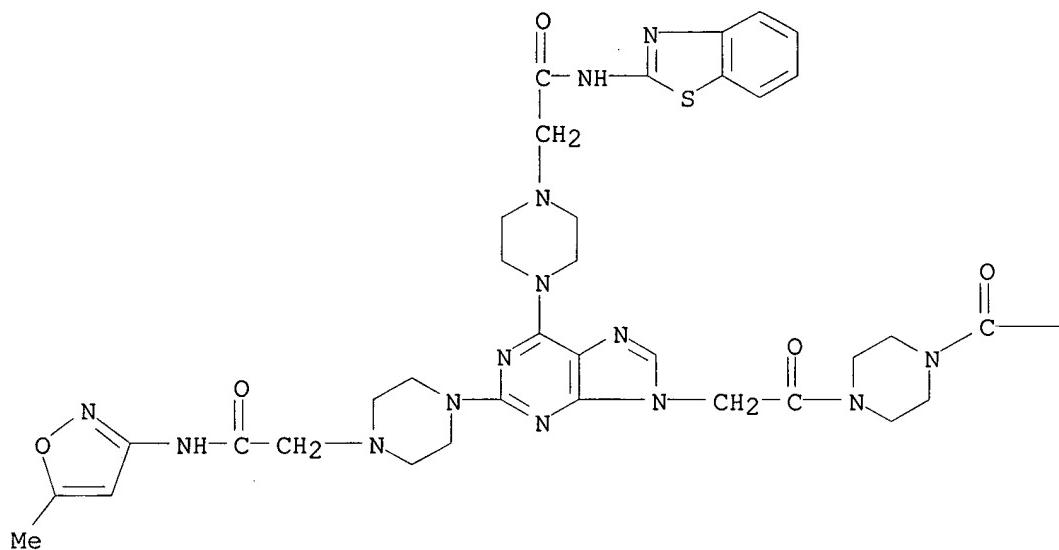
PAGE 2-A



RN 219688-11-6 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[4-[(2-[(5-methyl-3-isoxazolyl)amino]-2-oxoethyl)-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester  
(9CI) (CA INDEX NAME)

PAGE 1-A



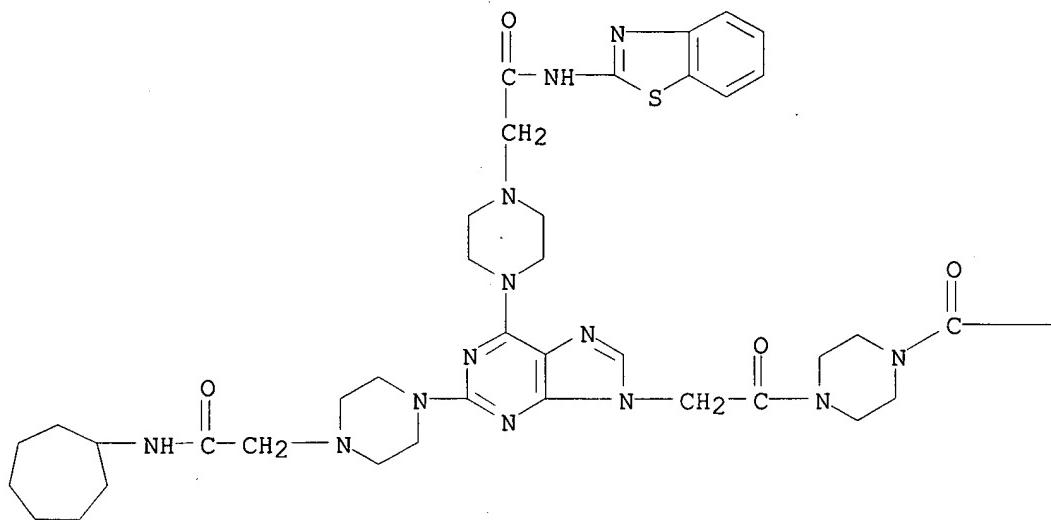
PAGE 1-B

—OBu-t

RN 219688-12-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[6-[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-2-[4-[2-(cycloheptylamino)-2-oxoethyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



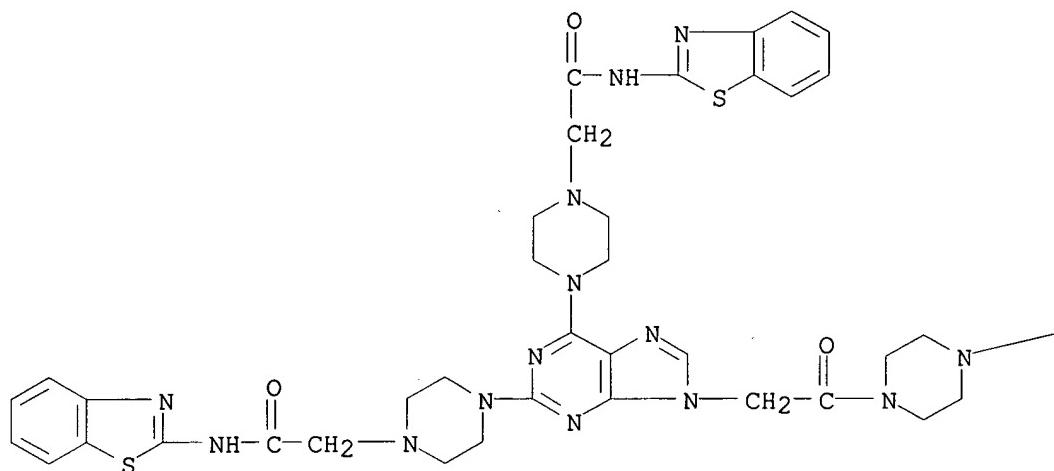
PAGE 1-B

—OBu-t

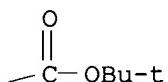
RN 219688-13-8 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-[2,6-bis[4-[2-(2-benzothiazolylamino)-2-oxoethyl]-1-piperazinyl]-9H-purin-9-yl]acetyl]-, 1,1-dimethylethyl ester  
(9CI) (CA INDEX NAME)

PAGE 1-A

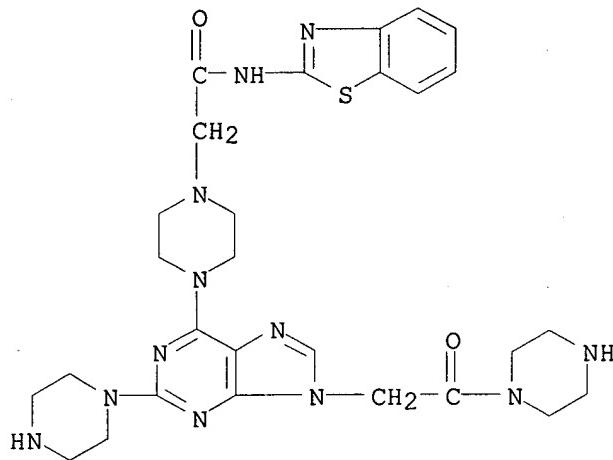


PAGE 1-B



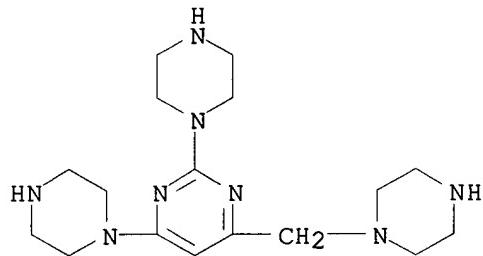
RN 219688-14-9 HCPLUS

CN 1-Piperazineacetamide, N-2-benzothiazolyl-4-[9-[2-oxo-2-(1-piperazinyl)ethyl]-2-(1-piperazinyl)-9H-purin-6-yl]- (9CI) (CA INDEX NAME)



RN 219688-56-9 HCPLUS

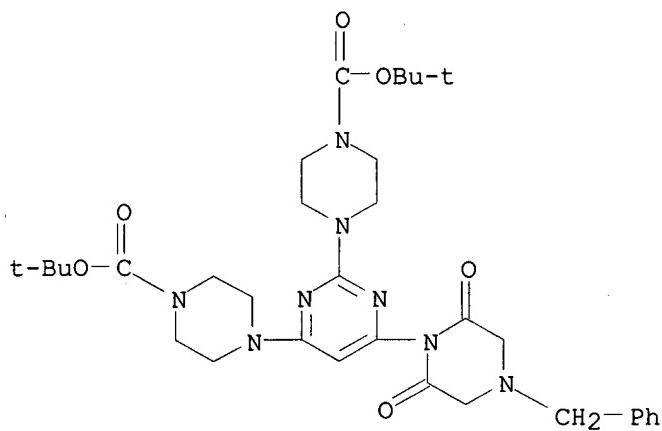
CN Pyrimidine, 2,4-di-1-piperazinyl-6-(1-piperazinylmethyl)-, hexahydrochloride (9CI) (CA INDEX NAME)



• 6 HCl

RN 219688-78-5 HCPLUS

CN 1-Piperazinecarboxylic acid, 4,4'-[6-[2,6-dioxo-4-(phenylmethyl)-1-piperazinyl]-2,4-pyrimidinediyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



IT 3764-01-0, 2,4,6-Trichloropyrimidine 15986-32-0

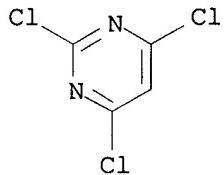
94170-66-8

RL: RCT (Reactant)

(combinatorialization of nucleobase heterocyclic)

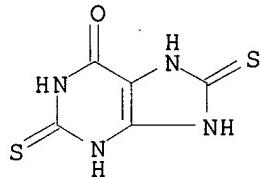
RN 3764-01-0 HCPLUS

CN Pyrimidine, 2,4,6-trichloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



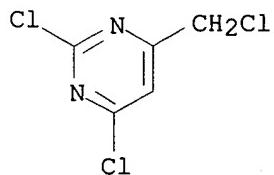
RN 15986-32-0 HCPLUS

CN 6H-Purin-6-one, 1,2,3,7,8,9-hexahydro-2,8-dithioxo- (9CI) (CA INDEX NAME)



RN 94170-66-8 HCPLUS

CN Pyrimidine, 2,4-dichloro-6-(chloromethyl)- (9CI) (CA INDEX NAME)

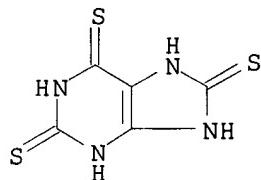


IT 15986-33-1P, 2,6,8-Trimercaptopurine 219687-94-2P  
 219687-95-3P 219687-96-4P 219687-97-5P  
 219687-98-6P 219687-99-7P 219688-00-3P  
 219689-21-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (combinatorialization of nucleobase heterocyclic)

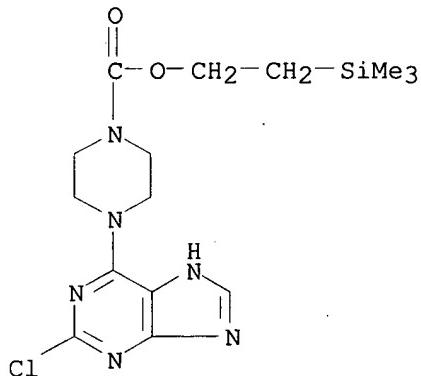
RN 15986-33-1 HCPLUS

CN 1H-Purine-2,6,8(3H)-trithione, 7,9-dihydro- (9CI) (CA INDEX NAME)



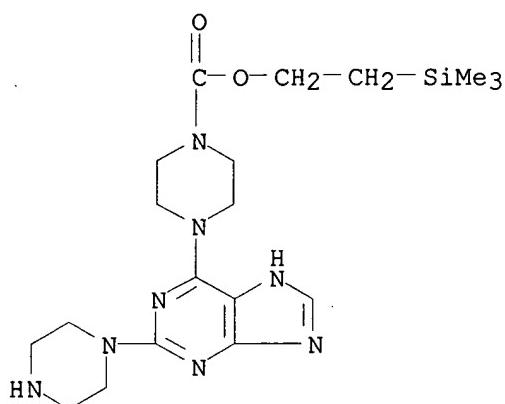
RN 219687-94-2 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-(2-chloro-1H-purin-6-yl)-,  
 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)



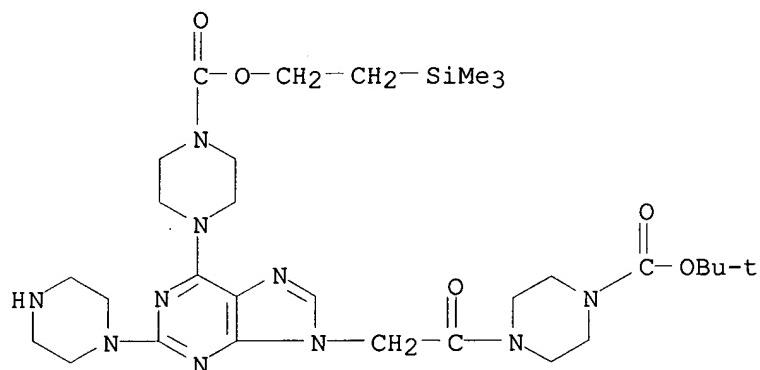
RN 219687-95-3 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-(1-piperazinyl)-1H-purin-6-yl]-,  
 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)



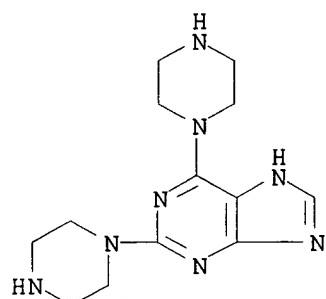
RN 219687-96-4 HCPLUS

CN 1-Piperazinecarboxylic acid, 4-[9-[2-[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]-2-oxoethyl]-2-(1-piperazinyl)-9H-purin-6-yl]-, 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)



RN 219687-97-5 HCPLUS

CN 1H-Purine, 2,6-di-1-piperazinyl- (9CI) (CA INDEX NAME)

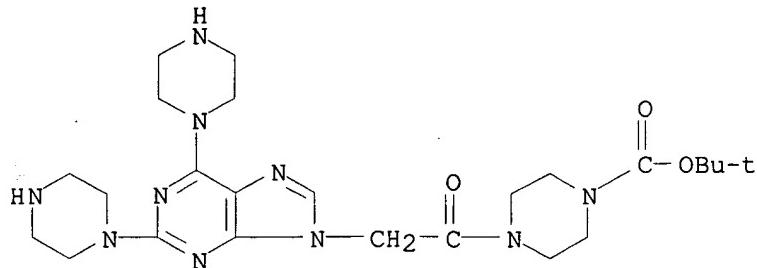


RN 219687-98-6 HCPLUS

Searched by John Dantzman

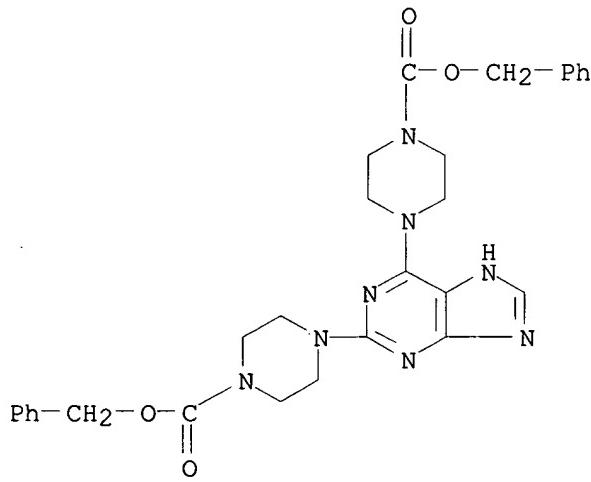
308-4488

CN 1-Piperazinecarboxylic acid, 4-[(2,6-di-1-piperazinyl-9H-purin-9-yl)acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



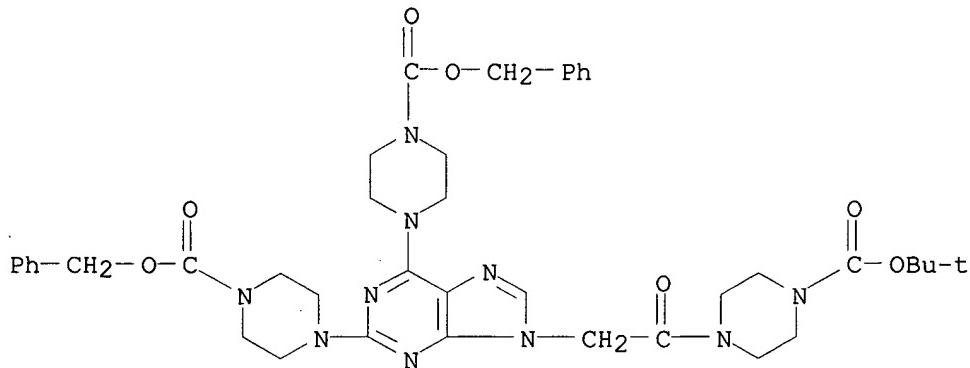
RN 219687-99-7 HCPLUS

CN 1-Piperazinecarboxylic acid, 4,4'-(1H-purine-2,6-diyl)bis-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)



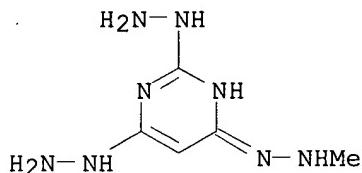
RN 219688-00-3 HCPLUS

CN 1-Piperazinecarboxylic acid,  
4,4'-[9-[2-[4-[(1,1-dimethylethoxy)carbonyl]-  
1-piperazinyl]-2-oxoethyl]-9H-purine-2,6-diyl]bis-, bis(phenylmethyl)  
ester (9CI) (CA INDEX NAME)



RN 219689-21-1 HCPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 6-hydrazino-, 2-hydrazone 4-(methylhydrazone)  
(9CI) (CA INDEX NAME)



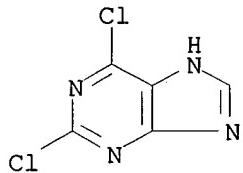
IT 5451-40-1, 2,6-Dichloropurine

RL: RCT (Reactant)

(combinatorialization of nucleobase **heterocyclic**  
piperazines)

RN 5451-40-1 HCPLUS

CN 1H-Purine, 2,6-dichloro- (9CI) (CA INDEX NAME)



IT 6972-15-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(combinatorialization of nucleobase **heterocyclic**  
piperazines)

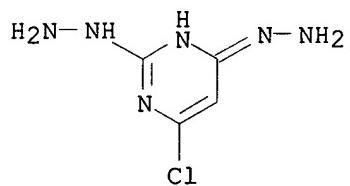
RN 6972-15-2 HCPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 6-chloro-, dihydrazone (9CI) (CA INDEX NAME)

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08/884873

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=> d bib abs hitstr l10 2

L10 ANSWER 2 OF 4 HCPLUS COPYRIGHT 2000 ACS  
 AN 1998:118624 HCPLUS  
 DN 128:167656  
 TI Combinatorial library on the preparation of oligodeoxyribonucleotide phosphoramidates and phosphorothiomidates as phospholipase A2 inhibitors

IN Cook, Phillip Dan; Acevedo, Oscar; Hebert, Normand  
 PA ISIS Pharmaceuticals, Inc., USA  
 SO U.S., 26 pp. Cont.-in-part of U.S. 5,637,684.  
 CODEN: USXXAM

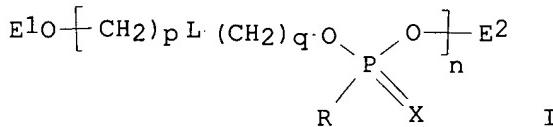
DT Patent

LA English

FAN.CNT 2

|  | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|--|----------------|------|----------|-----------------|----------|
| PI   | US 5717083     | A    | 19980210 | US 1996-693112  | 19960819 |
|  | US 5637684     | A    | 19970610 | US 1994-200638  | 19940223 |
|  | WO 9523160     | A1   | 19950831 | WO 1995-US2267  | 19950223 |
| W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,<br>GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,<br>MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US,<br>UZ, VN<br>RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,<br>LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,<br>SN, TD, TG |                |      |          |                 |          |
| PRAI   | US 1994-200638 |      | 19940223 |                 |          |
|  | WO 1995-US2267 |      | 19950223 |                 |          |

GI



AB Combinatorial library on the prepn. of title oligodeoxyribonucleotides I (X = O, S; R = amine, N-contg. heterocycle; L = alkyl, alkenyl, alkynyl, carbocycle, heterocycle; E1, E2 = independently H, hydroxyl protecting group, activated solid support; p, q = 0-6; n = 2-50) were prep'd. as phospholipase A2 inhibitors.

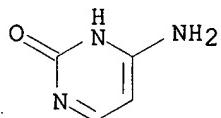
IT 71-30-7, Cytosine

RL: RCT (Reactant)

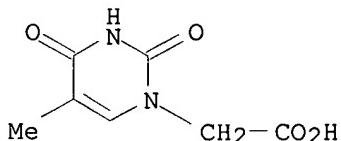
(combinatorial library on the prepn. of oligodeoxyribonucleotide phosphoramidates and phosphorothiomidates as phospholipase A2 inhibitors)

RN 71-30-7 HCPLUS

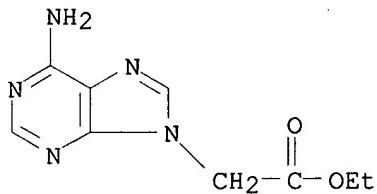
CN 2(1H)-Pyrimidinone, 4-amino- (9CI) (CA INDEX NAME)



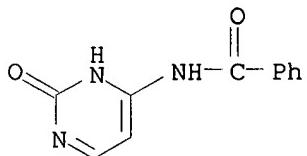
IT 20924-05-4P 25477-96-7P 26661-13-2P,  
 N-Benzoylcytosine 168263-86-3P 171406-46-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (combinatorial library on the prepn. of  
 oligodeoxyribonucleotide phosphoramidates and phosphorothiomidates as  
 phospholipase A2 inhibitors)  
 RN 20924-05-4 HCPLUS  
 CN 1(2H)-Pyrimidineacetic acid, 3,4-dihydro-5-methyl-2,4-dioxo- (8CI, 9CI)  
 (CA INDEX NAME)



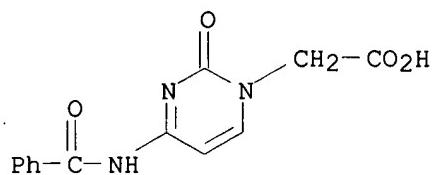
RN 25477-96-7 HCPLUS  
 CN 9H-Purine-9-acetic acid, 6-amino-, ethyl ester (8CI, 9CI) (CA INDEX  
 NAME)



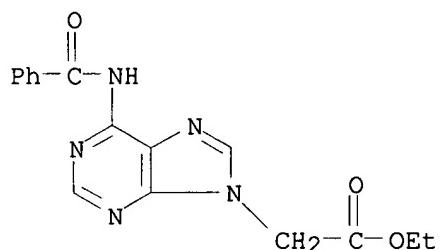
RN 26661-13-2 HCPLUS  
 CN Benzamide, N-(1,2-dihydro-2-oxo-4-pyrimidinyl)- (8CI, 9CI) (CA INDEX  
 NAME)



RN 168263-86-3 HCPLUS  
 CN 1(2H)-Pyrimidineacetic acid, 4-(benzoylamino)-2-oxo- (9CI) (CA INDEX  
 NAME)



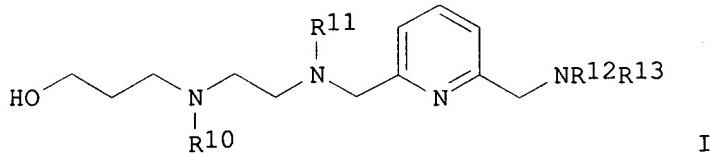
RN 171406-46-5 HCPLUS  
CN 9H-Purine-9-acetic acid, 6-(benzoylamino)-, ethyl ester (9CI) (CA INDEX  
NAME)



=> d bib abs hitstr 110 3

L10 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2000 ACS  
 AN 1998:112497 HCAPLUS  
 DN 128:180338  
 TI Preparation of compounds or **combinatorial** libraries of compounds having a plurality of nitrogenous substituents  
 IN Cook, P. Dan; An, Haoyun  
 PA ISIS Pharmaceuticals, Inc., USA; Cook, P. Dan; An, Haoyun  
 SO PCT Int. Appl., 187 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

| PATENT NO.           | KIND | DATE            | APPLICATION NO.   | DATE                   |
|----------------------|------|-----------------|---|------------------------|
| PI WO~9805961        | A1   | 19980212        | WO 1997-US13530   | 19970801               |
|                      |      |                 | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,<br>DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,<br>LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,<br>PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,<br>UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,<br>GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,<br>GN, ML, MR, NE, SN, TD, TG |                        |
|                      |      | AU 9739036      | A1 19980225   | AU 1997-39036 19970801 |
| PRAI US 1996-691206  |      | 19960801        |   |                        |
|                      |      | WO 1997-US13530 | 19970801  |                        |
| OS MARPAT 128:180338 |      |                 |   |                        |
| GI                   |      |                 |   |                        |



AB Novel compds. of general formula L-T-[-N(T-L)(CH<sub>2</sub>)<sub>x</sub>-]r-A[(J)t-T-L]-[-(CH<sub>2</sub>)<sub>x</sub>-N(T-L)]s-T-L [r = 1-4; s = 2-4; A = arom., **heterocyclic**, alicyclic ring; x = 1-8; J = N, O, S, **heterocyclic** ring system having at least one N; t = 0,1; T = single bond, CH<sub>2</sub>, [(CR<sub>1</sub>R<sub>2</sub>)<sub>m</sub>-R<sub>5</sub>-(CR<sub>1</sub>R<sub>2</sub>)<sub>n</sub>-[C(:R<sub>6</sub>)]p-E]q; R<sub>1</sub>, R<sub>2</sub> = H, C<sub>1</sub>-10 alkyl or haloalkyl, C<sub>2</sub>-10 alkenyl or alkynyl, C<sub>6</sub>-14 aryl; R<sub>5</sub>, E = single bond, CH:CH, C.tplbond.C, O, S, (un)substituted NH, SO<sub>2</sub>, (un)substituted C<sub>6</sub>-14 aryl, (un)substituted heteroaryl, (un)substituted (mixed) **heterocycle** contg. a N, O, or S; R<sub>6</sub> = O, S, (un)substituted NH; m, n = 0-5; p = 0,1; q = 1-10; L = H, (un)substituted C<sub>1</sub>-10 alkyl, C<sub>2</sub>-10 alkenyl, or C<sub>4</sub>-7 carbocyclic alkyl, (un)substituted alkyl, alkenyl, or alkynyl carbocyclic, (un)substituted C<sub>6</sub>-14 aryl or heteroaryl, (un)substituted **heterocycle** contg. a

Searched by John Dantzman 308-4488

N, O, or S, (un)substituted (mixed) **heterocycle**; with proviso that when A = 2,6-disubstituted pyridine with r = s = 2 and 6 of said L groups, then not more than 3 of said L groups are H or p-toluenesulfonyl] are constructed to include a central arom., aliph., or **heterocyclic** ring system. Attached to the central ring system are two linear groups having nitrogenous moieties that are derivatized with chem. functional groups. The ring system can include further nitrogenous moieties, either as ring atoms or on pendant groups attached to the ring, that may also be derivatized with chem. functional groups. The totality of the chem. functional groups imparts certain conformational and other properties to these compds. In accordance with certain embodiments of the invention, libraries of such compds. are prep'd. utilizing permutations and **combinations** of the chem. functional groups and the nitrogenous moieties to build complexity into the libraries. Such libraries are useful as antibacterial, antifungal, and imaging agents or for identifying

metal chelating species for heavy metal therapy as well as industrial application. Thus, 2-(acetamidomethyl)pyridine deriv. (I; R10 = Boc, R11 = R12 = H, R13 = CH<sub>2</sub>CONH<sub>2</sub>) (prepn. given) was alkylated by 3-(trifluoromethyl)benzyl bromide in the presence of K<sub>2</sub>CO<sub>3</sub> in MeCN followed by treatment with CF<sub>3</sub>CO<sub>2</sub>H in CHCl<sub>3</sub> at room temp. for 4 h to give I (R10 = H, R11 = R12 = 3-(trifluoromethyl)benzyl, R13 = CH<sub>2</sub>CONH<sub>2</sub>), which in vitro at 100 .mu.M inhibited 95% Staphylococcus pyogenes and 87% Escherichia coli. Many libraries of compds. were also prep'd., e.g., by alkylating I (R10 = Boc, R11 = R12 = R13 = H) with a mixt. of benzyl bromide, 3-fluorobenzyl bromide, .alpha.-bromo-m-xylene, Me 3-bromomethylbenzoate, 3-nitrobenzyl bromide, and 3-(trifluoromethyl)benzyl bromide in MeCN at room temp. overnight followed by deprotection with CF<sub>3</sub>CO<sub>2</sub>H to give a library of compds. N-benzylated (hydroxydiazaoctyl) (aminomethyl)pyridine I [R10 = H; R11, R12, R13 are randomly selected from benzyl, 3-fluorobenzyl, 3-methylbenzyl, 3-(methoxycarbonyl)benzyl, 3-nitrobenzyl] having m/z 663-867 in mass spectroscopy, which showed min. inhibitory concn. of 1-5, 1-5, 1-5, and 5-25 .mu.g/mL against Staphylococcus aureus, Staphylococcus pyogenes, Escherichia coli, and Candida albicans, resp., and inhibited 68% phospholipase A2 and 31% tat/TAR RNA/protein interactions at 100 .mu.M, and.

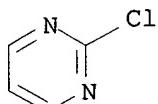
IT 1722-12-9, 2-Chloropyrimidine 175137-27-6

RL: RCT (Reactant)

(prepn. of compds. or **combinatorial** libraries of compds. having plurality of nitrogenous substituents as drugs such as antibacterial and antifungal agents)

RN 1722-12-9 HCPLUS

CN Pyrimidine, 2-chloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



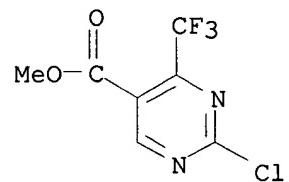
RN 175137-27-6 HCPLUS

CN 5-Pyrimidinecarboxylic acid, 2-chloro-4-(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)

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Page 6



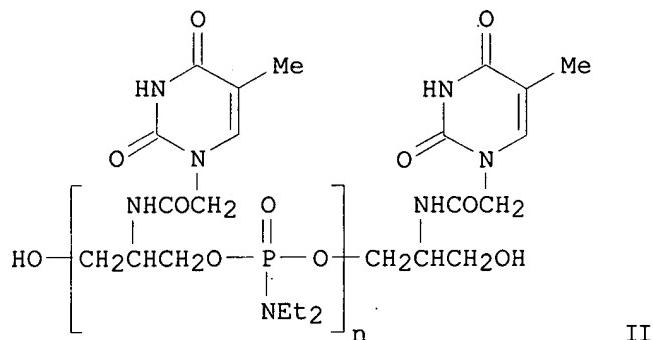
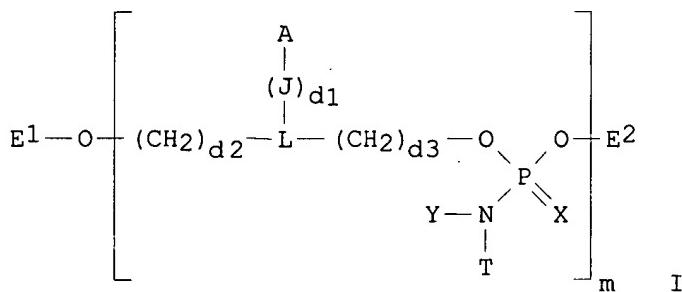
Searched by John Dantzman 308-4488

=> d bib abs hitstr 110 4

L10 ANSWER 4 OF 4 HCPLUS COPYRIGHT 2000 ACS  
 AN 1995:994352 HCPLUS  
 DN 124:146747  
 TI Preparation of novel phosphoramidate and phosphorothioamidate oligomeric compounds  
 IN Cook, Phillip Dan; Acevedo, Oscar; Hebert, Normand  
 PA Isis Pharmaceuticals, Inc., USA  
 SO PCT Int. Appl., 83 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| PI WO 9523160  | A1   | 19950831 | WO 1995-US2267  | 19950223 |
| W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,<br>GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,<br>MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US,<br>UZ, VN |      |          |                 |          |
| RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,<br>LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,<br>SN, TD, TG   |      |          |                 |          |
| US 5637684   | A    | 19970610 | US 1994-200638  | 19940223 |
| CA 2184005   | AA   | 19950831 | CA 1995-2184005 | 19950223 |
| AU 9519691   | A1   | 19950911 | AU 1995-19691   | 19950223 |
| AU 677150  | B2   | 19970410 |                 |          |
| EP 751948  | A1   | 19970108 | EP 1995-912595  | 19950223 |
| SE R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,  |      |          |                 |          |
| JP 09509663  | T2   | 19970930 | JP 1995-522463  | 19950223 |
| JP 2972344   | B2   | 19991108 |                 |          |
| US 5717083   | A    | 19980210 | US 1996-693112  | 19960819 |
| PRAI US 1994-200638  |      | 19940223 |                 |          |
| WO 1995-US2267   |      | 19950223 |                 |          |

GI



AB The title compds. [I; L = backbone segments; Y, T, A = functional groups for (non)interacting with target mols. of interest such as a N-contg. heterocycle, purine, pyrimidine, phosphate, polyether, and polyethylene glycol; X = O, S; E1, E2 = H, conjugate groups or intermediate groups used during the synthesis of the compds.; J = linking group such as C1-20 alkyl, CO, C(S), CO<sub>2</sub>, and CONH; d1 = 0,1; d2 = 0-6;

d3

= 1-6; m = 2-50], useful as inhibitors of phospholipase A2, are prep'd. using H phosphonate type chem. wherein the functional groups are added during an oxidn. step or during a coupling step. Thus, a thymine-contg. oligomer (II) was prep'd. by repeating the steps involving coupling of 1-O-(4,4'-dimethoxytrityl)-N-(9-fluorenylmethoxycarbonyl)-3-amino-1,3-propanediol 3-O-phosphonate to 1-O-(4,4'-dimethoxytrityl)-N-(1-thymin-1-ylacetyl)-2-amino-1,3-propanediol 3-succinate-bound long chain-alkylamino control pore glass support, oxidn. of the resulting H phosphonate with Et<sub>2</sub>NH to the phosphoramidate, removing the Fmoc-protective group, and reacting the free amine with 1-carboxymethylthymine. Oligomer libraries were also prep'd. (only general prepn. given) and screened for inhibition of phospholipase A2 using Escherichia coli labeled with <sup>3</sup>H-oleic acid to show specific inhibition for human type II phospholipase A2 (no details for biol. data given).

IT

**172525-81-4P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of novel phosphoramidate and phosphorothioamidate oligomeric compds. and combinatorial libraries as phospholipase A2 inhibitors)

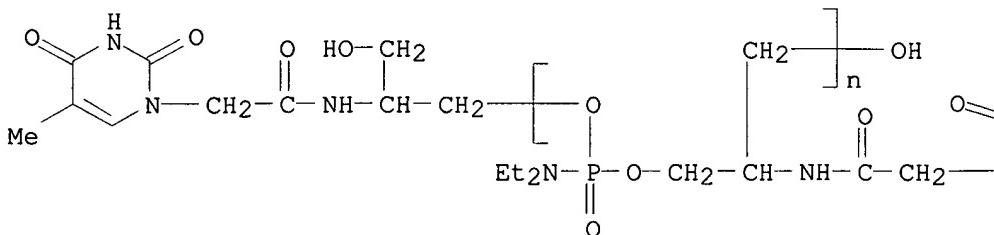
RN 172525-81-4 HCPLUS

Searched by John Dantzman

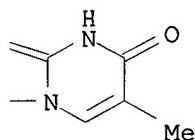
308-4488

CN Poly[oxy[(diethylamino)phosphinylidene]oxy[2-[[[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)acetyl]amino]-1,3-propanediyl]],  
.alpha.-[2-[[[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)acetyl]amino]-3-hydroxypropyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)

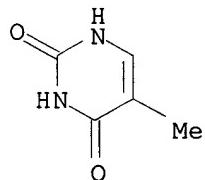
PAGE 1-A



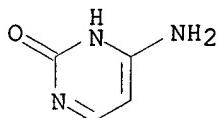
PAGE 1-B



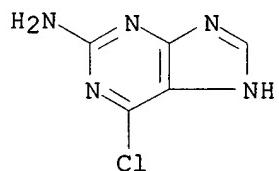
IT 65-71-4, Thymine 71-30-7, Cytosine 10310-21-1,  
2-Amino-6-chloropurine 20924-05-4, 1-Carboxymethylthymine  
RL: RCT (Reactant)  
(prepn. of novel phosphoramidate and phosphorothioamidate oligomeric  
compds. and combinatorial libraries as phospholipase A2  
inhibitors)  
RN 65-71-4 HCAPLUS  
CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl- (9CI) (CA INDEX NAME)



RN 71-30-7 HCAPLUS  
CN 2(1H)-Pyrimidinone, 4-amino- (9CI) (CA INDEX NAME)

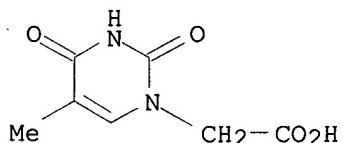


RN 10310-21-1 HCAPLUS  
 CN 1H-Purin-2-amine, 6-chloro- (9CI) (CA INDEX NAME)

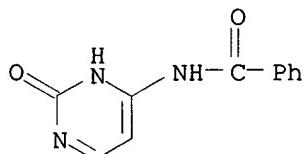


C

RN 20924-05-4 HCAPLUS  
 CN 1(2H)-Pyrimidineacetic acid, 3,4-dihydro-5-methyl-2,4-dioxo- (8CI, 9CI)  
 (CA INDEX NAME)

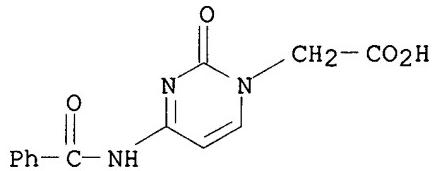


IT 26661-13-2P, N4-Benzoylcytosine 168263-86-3P,  
 N4-Benzoyl-1-cytosinylacetic acid 171406-46-5P, Ethyl  
 9-adenylacetate 171486-04-7P, N6-Benzoyl-9-adenylacetic acid  
 172405-20-8P, N2-Isobutyryl-9-guanylacetic acid  
 172525-49-4DP, long chain alkylamine control pore glass-bound  
 172525-55-2DP, long chain alkylamine control pore glass-bound  
 172525-56-3DP, long chain alkylamine control pore glass-bound  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of novel phosphoramidate and phosphorothioamidate oligomeric  
 compds. and combinatorial libraries as phospholipase A2  
 inhibitors)  
 RN 26661-13-2 HCAPLUS  
 CN Benzamide, N-(1,2-dihydro-2-oxo-4-pyrimidinyl)- (8CI, 9CI) (CA INDEX  
 NAME)



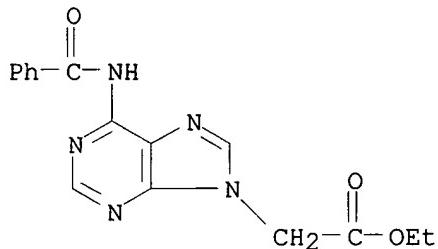
RN 168263-86-3 HCAPLUS  
 Searched by John Dantzman 308-4488

CN 1(2H)-Pyrimidineacetic acid, 4-(benzoylamino)-2-oxo- (9CI) (CA INDEX NAME)



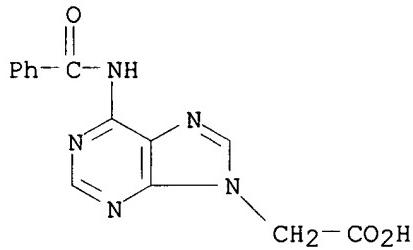
RN 171406-46-5 HCPLUS

CN 9H-Purine-9-acetic acid, 6-(benzoylamino)-, ethyl ester (9CI) (CA INDEX NAME)



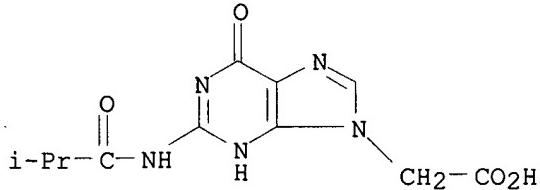
RN 171486-04-7 HCPLUS

CN 9H-Purine-9-acetic acid, 6-(benzoylamino)- (9CI) (CA INDEX NAME)



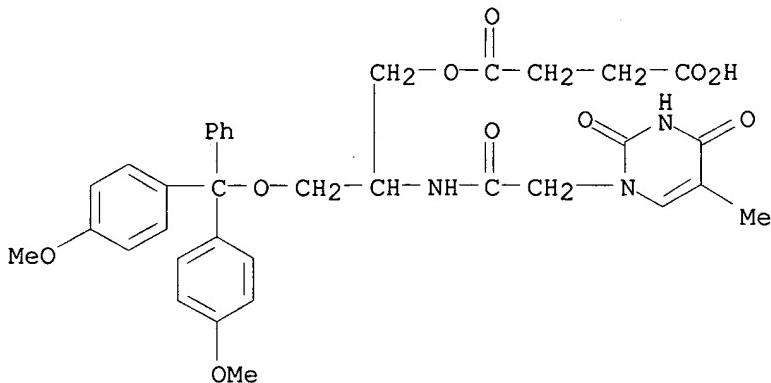
RN 172405-20-8 HCPLUS

CN 9H-Purine-9-acetic acid,  
1,6-dihydro-2-[ (2-methyl-1-oxopropyl)amino]-6-oxo-  
(9CI) (CA INDEX NAME)



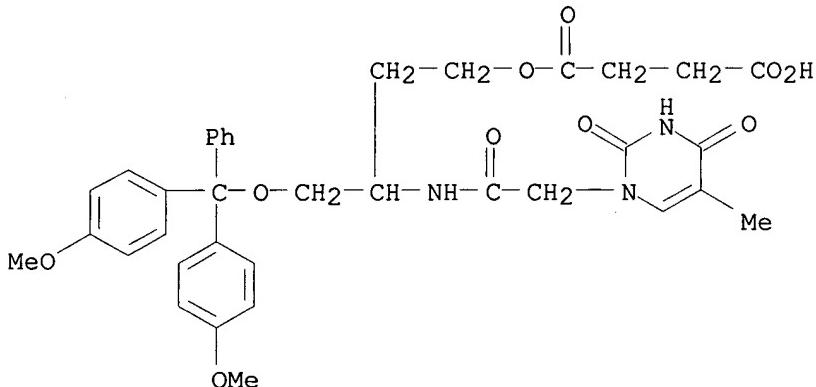
RN 172525-49-4 HCPLUS

CN Butanedioic acid, mono[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[[ (3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)acetyl]amino]propyl ester (9CI) (CA INDEX NAME)



RN 172525-55-2 HCPLUS

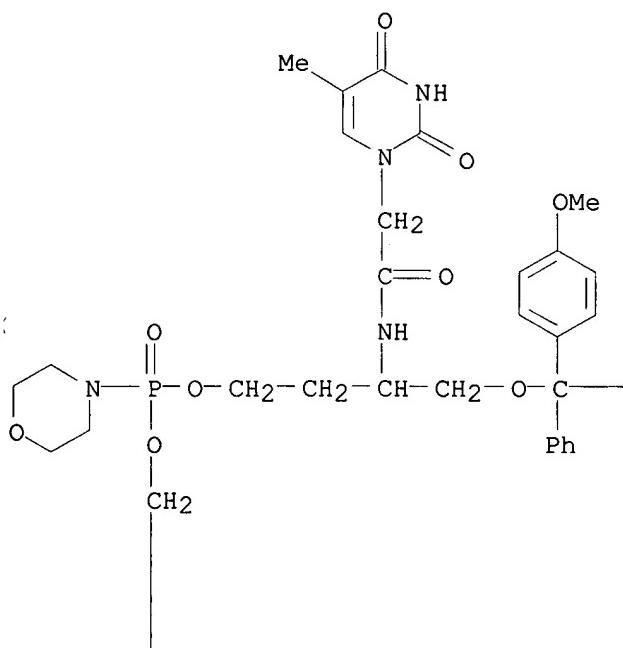
CN Butanedioic acid, mono[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[ (3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)acetyl]amino]butyl ester (9CI) (CA INDEX NAME)



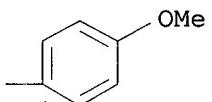
RN 172525-56-3 HCPLUS

CN Butanedioic acid,  
mono[3,10,17-tris[[ (3,4-dihydro-5-methyl-2,5-dioxo-1(2H)-  
pyrimidinyl)acetyl]amino]-20,20-bis(4-methoxyphenyl)-6,13-di-4-morpholinyl-  
6,13-dioxido-20-phenyl-5,7,12,14,19-pentaoxa-6,13-diphosphaeicos-1-yl]  
ester (9CI) (CA INDEX NAME)

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